| In | dex | of ( | Clair | ns |
|----|-----|------|-------|----|
|    |     |      |       |    |

| Application/Control No. |  |
|-------------------------|--|
|-------------------------|--|

Applicant(s)/Patent under Reexamination

10/540,396

Examiner

**GUIMIL ET AL.** Art Unit

Julie Ha

1654

| √  | Rejected |
|----|----------|
| 11 | Allowed  |

(Through numeral) Cancelled

Restricted

Non-Elected N Interference

Appeal Α 0 Objected

| Cla  | Claim Date                                   |  |  |  |              |  |  |  |              | $\neg$   |
|--|--|--|--|--|--------------|--|--|--|--------------|----------|
| <u> </u>   |  | 7  |  | -  |              |  | _  |  |              |          |
| Final  | Original                                     | +15/4/03   |  |  |              |  |  |  |              |          |
|  | 1  | +  | _  |  |              |  |  |  |              | $\neg$   |
|  | 1<br>2<br>3<br>4<br>5                        | +  | _  | _  | _            |  | _  |  |              | $\dashv$ |
|  |  | +  | _  | _  | _            | $\vdash$   |  |  |              | $\dashv$ |
|  | 4  | +  |  |  | _            |  |  | _  |              | $\dashv$ |
|  | =  | +  | -  | $\vdash$   | _            |  |  |  |              | $\dashv$ |
|  | 2  | +  |  |  |              |  | _  | _  |              |          |
|  | 6<br>7                                       | +  | -  |  | _            |  |  |  |              |          |
|  | -  | -  |  |  | _            | $\vdash$   | Н  | _  |              | $\dashv$ |
| -  | 8  | +  | _  |  |              |  |  |  |              | $\dashv$ |
|  | 9  | +  | _  |  | -            |  |  |  |              | Н        |
|  | 10   | +  |  |  |              |  | _  |  |              | Н        |
|  | 11   | +  |  |  | $\vdash$     |  |  |  |              | Н        |
|  | 12   | +  | <u> </u>   | ļ  | -            | Н  | <u> </u>   |  |              | Н        |
|  | 13   | +  | $\vdash$   | Н  | $\vdash$     | $\vdash$   |  | $\sqcup$   | $\vdash$     | $\vdash$ |
|  | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | +  | Ь.   | Ш  |              | Ш  | <u> </u>   |  |              | $\vdash$ |
|  | 15   | +  | _  | _  |              |  |  |  |              | Н        |
|  | 16   | +  |  | $\vdash$   | $\vdash$     | $\vdash$   |  | <u> </u>   |              | $\dashv$ |
|  | 17   | +  |  |  |              |  |  |  |              |          |
|  | 18   | +  |  |  |              |  |  |  |              | Ш        |
|  | 19   | +  |  | _  |              |  |  |  |              |          |
|  | 20   | +  |  | _  |              |  |  |  |              | Щ        |
|  | 20<br>21<br>22<br>23<br>24                   | +  |  |  |              |  |  |  |              |          |
|  | 22   | +  |  |  |              | _  |  |  |              |          |
|  | 23   | +  | _  | _  |              |  |  |  |              | _        |
|  | 24   | +  | _  | <u> </u>   | _            |  |  |  | _            | <u> </u> |
|  | 25<br>26<br>27<br>28<br>29<br>30             | +  | _  |  |              |  |  |  | _            | -        |
| <u> </u>   | 20   | +  | $\vdash$   |  | _            | _  |  |  |              | _        |
|  | 27   | -  | -  | H  | $\vdash$     |  |  |  | Н            |          |
| _  | 20   | -  |  | -  | -            |  |  |  | $\vdash$     | -        |
| <u> </u>   | 29   | -  | -  | -  | -            |  | -  |  | _            | $\vdash$ |
| <u> </u>   | 30   |  | ├─   | ├  | -            |  |  |  |              | Н        |
|  | 31   | ⊢  | <del>                                     </del> | -  | -            |  |  |  |              | $\dashv$ |
| -  | 31<br>32<br>33                               | -  | ├-   | -  | <del> </del> | $\vdash$   | $\vdash$   | $\vdash$   | <del></del>  | $\dashv$ |
| <del> </del>                                     | 34   | $\vdash$   |  | <del> </del>                                     |              | -  | ├  |  | -            | Н        |
| <del> </del>                                     | 35   | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     | <del>                                     </del> |  |  | ┝            | Н        |
| <del> </del>                                     | 34<br>35<br>36                               | <del> </del>                                     | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$   | <del> </del> | Н        |
|  | 37   | ⊢  | ┢  | -  | ┢            | $\vdash$   | ┝  |  | $\vdash$     | Н        |
| $\vdash$   | 38   | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     | Н        |
| <b> </b>   | 39   | <del> </del>                                     |  | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$   | <del>                                     </del> | $\vdash$     | $\vdash$ |
| <del> </del>                                     | 40   | Η-   | $\vdash$   | $\vdash$   | $\vdash$     | ऻ─ऻ  | $\vdash$   | -  | $\vdash$     | Н        |
| <del>                                     </del> | 41   | Н  | $\vdash$   | _  | 一            |  | $\vdash$   | $\vdash$   | -            | Н        |
| <del> </del>                                     | 42   | $\vdash$   | $\vdash$   |  | $\vdash$     |  | $\vdash$   | _  | <u> </u>     | Н        |
| <u> </u>   | 43   | <del>                                     </del> | $\vdash$   | <del>                                     </del> | _            | $\vdash$   | _  | <del>                                     </del> |              | Н        |
| $\vdash$   | 44   | T  |  |  | Т            | $\vdash$   | <del>                                     </del> | <u> </u>   | $\vdash$     | Н        |
| <u> </u>   | 45   | T  | $\vdash$   | $\vdash$   | $\vdash$     | 1  | T  |  | -            | Н        |
| _  | 46   | Ι-   | _  | $\vdash$   | $\vdash$     | _  | <b>-</b>   | Ι  |              | Н        |
| <u> </u>   | 47   | ╁  | _  | $\vdash$   | _            | Н  | $\vdash$   | $\vdash$   | $\vdash$     | Н        |
| <del></del>                                      | 48   | T  | <del>                                     </del> | $\vdash$   | I            | -  |  |  | $\vdash$     | Н        |
| $\vdash$   | 49   | $t^-$  |  | <del>                                     </del> | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     | Н        |
| <u> </u>   | 50   | <del>                                     </del> | $\vdash$   | H  | t            |  | $\vdash$   | $\vdash$   | $\vdash$     | Н        |

| la | im       |          |              |              |          | Date     | € .      |          |          |          | ] [ | Cla   | im       |          |          |   |   | ate | 9        |          |          |          |   |            |
|----|----------|----------|--------------|--------------|----------|----------|----------|----------|----------|----------|-----|-------|----------|----------|----------|---|---|-----|----------|----------|----------|----------|---|------------|
|    | Original | 12/4/07  |              |              |          |          |          |          |          |          |     | Final | Original |          |          |   |   |     |          |          |          |          |   |            |
| _  | 1.       | +        |              |              |          |          |          |          | ⊢        | -        |     |       | 51       |          | -        | _ |   |     |          |          | -        |          |   | H          |
| _  | 2        | +        |              |              | _        |          | _        |          | $\vdash$ | -        |     |       | 52       | $\dashv$ | -        |   |   |     |          |          |          | $\dashv$ |   | -          |
| -  | 3        | +        | _            |              | —        | _        |          |          | $\vdash$ |          |     |       | 53       |          | -        |   |   |     |          |          |          | -        |   | ┝          |
| -  | 4        | +        |              | _            | _        | -        | -        | -        |          |          |     |       | 54       | $\dashv$ | $\dashv$ | _ | _ | _   |          |          | $\dashv$ | $\dashv$ |   | ⊢          |
|    | 5        | +        | $\vdash$     | $\vdash$     | —        | -        | ┝        | -        | $\vdash$ | $\vdash$ |     |       | 55       | $\dashv$ |          |   | _ |     |          |          | -        |          |   | ┝          |
| _  | 6        | +        | $\vdash$     | $\vdash$     |          | $\vdash$ | ┝        | $\vdash$ | -        | -        |     |       | 56       | $\dashv$ | _        | _ |   |     |          | -        |          | $\dashv$ |   | ⊢          |
| -  | 7        | +        | -            |              |          | -        |          |          |          |          |     |       | 57       | $\dashv$ |          | _ |   |     | -        | _        |          |          |   | H          |
| _  | 8        | +        |              |              | _        | $\vdash$ |          | _        |          |          | 1 1 |       | 58       |          |          |   |   |     |          |          |          |          |   | ┢          |
| _  | 9        | +        |              |              | -        |          |          | _        | -        | $\vdash$ | 1 1 |       | 59       |          |          |   |   |     |          |          |          |          |   | Г          |
|    | 10       | +        |              |              | _        | _        |          | -        |          |          | 1 1 |       | 60       | Ħ        |          |   | _ |     |          |          |          |          |   | Г          |
|    | 11       | +        |              |              |          |          |          | _        |          |          | 1   |       | 61       |          |          |   |   |     |          |          |          |          |   | Г          |
|    | 12       | +        |              |              | Г        |          |          | -        |          |          | 1   |       | 62       |          |          |   |   |     |          |          |          |          |   | Г          |
|    | 13       | +        |              |              |          |          |          |          |          |          | 1   |       | 63       |          |          |   |   |     |          |          |          |          |   |            |
|    | 14       | +        |              |              |          |          |          |          |          |          |     |       | 64<br>65 |          |          |   |   |     |          |          |          |          |   |            |
|    | 15       | +        |              |              |          |          |          |          |          |          |     |       | 65       |          |          |   |   |     |          |          |          |          |   |            |
| _  | 16       | +        |              |              |          |          |          |          |          |          |     |       | 66       |          |          |   |   |     |          |          |          |          |   |            |
| _  | 17       | +        |              |              |          |          |          |          |          |          | ]   |       | 67       |          |          |   |   |     |          |          |          |          |   | L          |
|    | 18       | +        |              |              | <u> </u> |          |          |          | L        |          |     |       | 68       |          |          |   |   |     |          |          |          |          |   | L.         |
| _  | 19       | +        |              |              |          | <u> </u> |          |          |          |          | ].  |       | 69       |          |          |   |   |     |          |          |          |          |   | L          |
|    | 20       | +        |              | L            |          |          |          |          | L        |          |     |       | 70       | $\Box$   |          |   |   |     |          |          |          |          |   | L          |
|    | 21       | +        |              |              | <u> </u> | <u> </u> |          |          |          |          |     |       | 71       |          |          |   |   |     |          |          |          |          |   | _          |
|    | 22       | +        | _            |              | <u> </u> | <u> </u> | L.       |          | _        | <u> </u> | . 1 |       | 72       |          |          |   |   |     |          |          |          |          |   | L          |
| _  | 23       | +        | _            | L_           | ļ        |          |          | <u> </u> | _        | ļ        |     |       | 73       |          |          |   |   |     |          |          |          |          |   | _          |
| _  | 24       | +        |              |              | L_       |          |          | _        | L        | Ļ.       |     |       | 74       |          |          |   |   |     |          |          |          | _        |   | <u> </u>   |
|    | 25       | +        |              |              |          | ļ        |          | ļ        | _        | _        | .   |       | 75       |          |          |   |   |     |          |          |          |          |   | L          |
|    | 26       | +        | <u> </u>     |              | <u> </u> |          | <u> </u> | _        | _        | L        |     |       | 76       |          |          |   |   |     |          |          |          |          |   | <u> </u>   |
|    | 27       | _        |              | _            | <u> </u> |          |          |          | <u> </u> | _        |     |       | 77       |          |          |   |   |     |          | _        |          | _        |   | ┝          |
|    | 28       | <u> </u> |              | <u> </u>     |          |          |          |          | -        | _        |     |       | 78       | Н        |          |   |   |     |          | _        |          |          |   | <u> </u> - |
|    | 29       | _        | <u> </u>     | <u> </u>     | _        |          | _        | _        | <u> </u> | 1_       |     |       | 79       |          |          |   |   |     |          |          |          |          |   |            |
|    | 30       | ├-       | <u> </u>     | <del> </del> |          |          | -        | -        |          | 1-       |     |       | 80       |          |          |   |   |     | $\vdash$ |          |          | H        |   | H          |
| _  | 31<br>32 | <u> </u> | <u> </u>     | -            | -        |          | -        | H        | -        |          |     |       | 81<br>82 |          |          |   |   | _   |          | -        |          | -        |   | <u> </u>   |
| _  | 33       | ⊢        | <del> </del> | ├            | -        |          | ⊢        | $\vdash$ | -        |          |     |       | 83       | $\vdash$ |          | _ |   |     | $\vdash$ | -        |          |          |   | H          |
|    | 34       | ┢        |              | ⊢            | ├        | -        | ├─       | ├        |          |          | 1   |       | 84       |          | _        |   |   | _   | H        | -        | _        |          |   | -          |
| _  | 35       | ├        | $\vdash$     | $\vdash$     | -        | -        |          |          | -        | $\vdash$ | 1   |       | 85       |          |          |   |   |     | H        | ├─       |          | _        |   | H          |
| -  | 36       | -        | $\vdash$     | $\vdash$     | -        | $\vdash$ | $\vdash$ | -        | -        | ┢        | 1   |       | 86       | Н        |          |   |   |     |          | -        | -        |          |   | -          |
| _  | 37       | $\vdash$ | $\vdash$     | $\vdash$     | $\vdash$ | ┢        | $\vdash$ | -        | $\vdash$ | -        | 1   |       | 87       | Н        |          | H |   | _   |          | ├─-      |          |          |   | $\vdash$   |
| _  | 38       | $\vdash$ |              | $\vdash$     | -        | $\vdash$ | $\vdash$ | $\vdash$ |          |          | 1   |       | 88       |          |          | _ | - |     | $\vdash$ | $\vdash$ |          | -        | ŀ | Н          |
| -  | 39       | -        | ┢            | $\vdash$     | ┢        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | 1   |       | 89       | Н        | _        | - |   |     | ┢═       | $\vdash$ |          | _        | l | F          |
| _  | 40       | ┌╴       | $\vdash$     | $\vdash$     | Т        | -        | $\vdash$ | _        | Т        | $\vdash$ | 1   |       | 90       | Н        |          |   | _ |     | $\vdash$ | _        |          |          | ĺ | ┢          |
|    | 41       | Г        |              |              | $\vdash$ | Т        | $\vdash$ | $\vdash$ | $\vdash$ | Н        | 1   |       | 91       | Н        |          |   | - | _   |          |          |          |          | ĺ | Г          |
| _  | 42       | T        |              |              | T        | Т        | Т        | $\vdash$ | Г        | Г        | 1   |       | 92       | П        | _        |   |   | -   | -        |          |          |          | İ | Г          |
|    | 43       | Ī        | Г            | <u> </u>     |          |          | Г        |          |          | 1        | 1   |       | 93       | П        |          |   |   |     | Г        | Г        |          |          |   |            |
| _  | 44       | Π        |              |              |          |          |          |          |          |          | ]   |       | 94       | П        |          |   |   |     |          |          |          |          |   | Г          |
|    | 45       | Π        |              |              |          |          | L        |          |          |          | ]   |       | 95       |          |          |   |   |     |          |          |          |          |   |            |
|    | 46       |          |              |              |          |          |          |          |          |          | ]   |       | 96       | П        |          |   |   |     |          |          |          |          |   |            |
| _  | 47       |          |              |              |          |          |          |          |          |          | ]   |       | 97       |          |          |   |   |     |          | L        |          |          |   |            |
| _  | 48       |          |              |              |          |          |          |          |          |          | ]   |       | 98       |          |          |   |   |     |          |          |          |          |   |            |
|    | 49       |          |              |              |          |          | 匚        | 匚        |          | L        | ]   |       | 99       |          |          |   |   |     |          |          |          | $\Box$   |   | Ĺ          |
|    | 50       | 匚        |              | L            |          |          |          |          |          |          | J   |       | 100      |          |          |   |   |     |          |          | L        |          | ] | L          |
|    |          |          |              | -            |          |          |          |          |          |          |     |       |          |          |          |   |   |     |          |          |          |          |   |            |

| _Cl   | aim   | - 1      |          |            |          | Date         | •            |          |              | _               |  |
|-------|---|----------|----------|------------|----------|--------------|--------------|----------|--------------|-----------------|--|
| Final | Original                                      |          |          |            |          |              |              |          |              |                 |  |
|       | 101   |          |          |            |          |              |              |          |              |                 |  |
|       | 101<br>102                                    |          |          |            |          |              |              |          |              |                 |  |
|       | 103   |          |          |            |          |              |              |          |              |                 |  |
|       | 104   |          |          |            |          |              |              |          |              |                 |  |
|       | 105   |          |          |            |          |              |              |          |              |                 |  |
|       | 106   |          |          |            |          |              |              |          |              | Щ               |  |
|       | 107   |          |          |            |          |              | Ш            |          | Ш            |                 |  |
|       | 108<br>109                                    |          | _        |            |          |              | -            |          | _            |                 |  |
|       | 110   | -        |          |            | _        |              |              |          |              |                 |  |
|       | 111   |          |          |            |          | _            |              |          | $\vdash$     | -               |  |
|       | 112   | $\vdash$ | $\vdash$ |            | $\vdash$ |              | $\vdash$     |          |              |                 |  |
|       | 112<br>113                                    |          |          |            |          | Н            | Н            |          | -            | Н               |  |
|       | 114   |          |          |            |          |              |              |          |              |                 |  |
|       | 114<br>115<br>116                             |          |          |            |          |              |              |          |              |                 |  |
|       | 116   |          |          |            |          |              |              |          |              |                 |  |
|       | 117   |          |          |            |          |              |              |          |              | Ш               |  |
|       | 118   |          |          |            |          |              |              |          |              | Ш               |  |
|       | 119   |          |          |            | _        |              |              |          |              | $\Box$          |  |
|       | 120   |          |          |            | ļ        | L            |              |          |              | Ш               |  |
|       | 120<br>121<br>122                             |          |          | -          |          | H            |              | _        | _            | -               |  |
|       | 122   |          |          | -          |          |              | -            |          |              |                 |  |
|       | 123<br>124<br>125                             | -        |          | _          |          |              |              |          |              | $\vdash$        |  |
|       | 125   |          |          |            |          |              |              | _        |              |                 |  |
|       | 126   |          |          |            |          |              |              |          |              |                 |  |
|       | 127   |          |          |            |          |              |              |          |              |                 |  |
|       | 128   |          |          |            |          |              |              |          |              |                 |  |
|       | 129   | L_       |          |            | _        |              | _            |          |              | Ш               |  |
|       | 126<br>127<br>128<br>129<br>130<br>131<br>132 |          | _        |            | L        |              |              |          | _            | Щ               |  |
|       | 131   | <u> </u> | _        |            | <u> </u> | <u> </u>     |              |          | _            | Щ               |  |
|       | 132   | _        |          |            | _        | <u> </u>     |              | <u> </u> | _            | $\vdash$        |  |
|       | 133   |          | $\vdash$ | <u> </u>   | -        | -            |              | <u> </u> |              | $\vdash \vdash$ |  |
|       | 134<br>135                                    | -        |          |            | -        | <del> </del> | H            |          | H            | ${\mathbb H}$   |  |
|       | 136   | $\vdash$ |          | -          | $\vdash$ | H            | <del> </del> |          | Н            | $\vdash \vdash$ |  |
|       | 137   | $\vdash$ |          | $\vdash$   | ┢        |              | T .          |          | $\vdash$     | $\vdash$        |  |
|       | 138   |          |          |            |          |              |              |          |              |                 |  |
|       | 139   |          |          |            |          |              |              |          |              |                 |  |
|       | 140   |          |          |            | Ĺ        |              | $\Box$       |          |              |                 |  |
|       | 141   | ļ        |          | <u> </u>   | <u> </u> | <u> </u>     | <u> </u>     | _        | _            | $\sqcup$        |  |
|       | 142   | <u> </u> | <u> </u> | <u> </u> _ | <u> </u> | <u> </u>     |              | ļ        | <u> </u>     | Н               |  |
|       | 143   | -        | <b> </b> | _          | $\vdash$ | ├-           | $\vdash$     | <u> </u> |              | $\vdash \vdash$ |  |
|       | 144<br>145                                    |          | -        | -          | -        | $\vdash$     | $\vdash$     | -        | <del> </del> | $\vdash\vdash$  |  |
|       | 145   | $\vdash$ | -        | $\vdash$   | -        | $\vdash$     | ├            | -        | -            | $\vdash$        |  |
|       | 147   |          | $\vdash$ | $\vdash$   | ┢        | -            | $\vdash$     | -        | $\vdash$     | Н               |  |
|       | 148   | $\vdash$ | $\vdash$ | $\vdash$   | -        | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$     | Н               |  |
|       | 149   | $I^-$    | Т        | H          | $\vdash$ | <u> </u>     | T            |          | <b> </b>     | Н               |  |
| -     | 150   | Г        |          |            | Г        | Г            | $\vdash$     |          |              | П               |  |